

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 11   | bolt with weld\$4 with equivalent with connection   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 09:55 |
| L2    | 29   | (hub turbine fan) and (thread\$2 near3 weld\$4 near3 (equivalent similar "or the like"))                  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 09:58 |
| L3    | 0    | hub with (turbine fan) and (thread\$2 near3 weld\$4 near3 (equivalent similar "or the like"))             | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 09:59 |
| L4    | 0    | turbomachin\$5 and (thread\$2 near3 weld\$4 near3 (equivalent similar "or the like"))                     | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 09:59 |
| L5    | 0    | turbomachin\$5 and ((thread\$2 bolt\$3 screw \$2) near3 weld\$4 near3 (equivalent similar "or the like")) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 10:00 |
| L6    | 0    | turbomachin\$5 and ((thread\$2 bolt\$3 screw \$2) near3 weld\$4 with (equivalent similar "or the like"))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 10:00 |
| L7    | 61   | turbomachin\$5 and (thread\$2 bolt\$3 screw\$2) near3 weld\$4   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 10:00 |
| L8    | 8    | turbomachin\$5 and (thread\$2 bolt\$3 screw\$2) near3 weld\$4 same shaft                                  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 10:02 |
| L9    | 85   | 228/140.ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/15 10:40 |

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| L10 | 19  | 9 and weld\$4 same (press \$4 shr?nk\$3 fit)                    | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 10:41 |
| L11 | 5   | 9 and weld\$4 same taper \$4                                    | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:34 |
| L12 | 143 | weld\$4 same taper\$4 with interference                         | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:35 |
| L13 | 47  | weld\$4 same taper\$4 near3 interference                        | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:35 |
| L14 | 14  | weld\$4 same taper\$4 near3 interference adj fit                | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:35 |
| L15 | 0   | taper\$4 near3 interference adj fit same differ\$4 adj radii    | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:45 |
| L16 | 0   | taper\$4 near3 interference adj fit same differ\$4 near2 radii  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:45 |
| L17 | 0   | taper\$4 near3 interference adj fit same differ\$4 near2 radius | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:46 |
| L18 | 28  | interference adj fit same differ\$4 near2 radius                | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:46 |
| L19 | 0   | interference adj fit same differ\$4 near2 radius same taper\$4  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:47 |

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| L20 | 3  | interference adj fit same differ\$4 near2 radius with end  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 12:47 |
| L21 | 0  | interfer\$5 adj fit same differ\$4 near2 radius with end not 20  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:22 |
| L22 | 0  | friction\$2 adj fit same differ\$4 near2 radius with end not 20  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:22 |
| L23 | 13 | friction\$2 adj fit same differ\$4 near2 radius  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:22 |
| L24 | 62 | (friction\$2 interfer\$4 compress\$4 pressur\$5 press\$4) adj fit same differ \$4 near2 radius                             | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:25 |
| L25 | 21 | (friction\$2 interfer\$4 compress\$4 pressur\$5 press\$4) adj fit with differ \$4 near2 radius                             | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:25 |
| L26 | 4  | (friction\$2 interfer\$4 compress\$4 pressur\$5 press\$4) adj fit same differ \$4 near2 radius with axial \$5              | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:32 |
| L27 | 30 | (friction\$2 interfer\$4 compress\$4 pressur\$5 press\$4) adj fit and differ \$4 near2 radius with axial \$5 not 26        | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:33 |
| L28 | 12 | (friction\$2 interfer\$4 compress\$4 pressur\$5 press\$4) adj fit and differ \$4 near2 radius near5 axial \$5 not 26       | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:33 |
| L29 | 98 | (friction\$2 interfer\$4 compress\$4 pressur\$5 press\$4) adj fit and differ \$4 near2 radius near5 (axial\$5 axis) not 26 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:34 |

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| L30 | 0  | (friction\$2 interfer\$4 compress\$4 pressur\$5 press\$4) adj fit same differ \$4 near2 radius near5 axial \$5 not 26 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:35 |
| L31 | 0  | ("2007/0034612").URPN.  | USPAT                                       | OR | ON | 2008/10/15 13:36 |
| L32 | 16 | hub with (turbine fan) with laser with weld\$3  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:42 |
| L33 | 8  | (shaft hub) near3 (turbine fan) with laser near3 weld \$3   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:43 |
| L34 | 1  | (shaft hub) near3 fan with laser near3 weld\$3  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:44 |
| L35 | 0  | (shaft hub) near3 fan same laser near3 weld\$3 not 34   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:45 |
| L36 | 3  | (shaft hub) near3 fan with weld\$4 and laser near3 weld\$3 not 34   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:45 |
| L37 | 0  | (shaft hub) near3 fan with weld\$4 same beam near3 weld\$3 not 34   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:46 |
| L38 | 0  | (shaft hub) near5 fan with weld\$4 same beam near3 weld\$3 not 34   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:47 |
| L39 | 0  | (shaft hub) near5 fan with weld\$4 same (laser beam) near3 weld\$3 not 34   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:47 |
| L40 | 6  | (shaft hub) with fan with weld\$4 same (laser beam) with weld\$3 not 34   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/15 13:47 |

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| L41 | 51 | ("415"/\$.ccls. "416"/\$.ccls.) and (laser beam) with weld\$3 with (shaft hub fan)                               | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/15 13:49 |
| L42 | 3  | ("415"/\$.ccls. "416"/\$.ccls.) and (laser beam) with weld\$3 with shaft with (hub fan)                          | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/15 13:49 |
| L43 | 7  | ("415"/\$.ccls. "416"/\$.ccls.) and laser near3 weld \$3 with (hub fan)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/15 13:53 |
| L44 | 84 | ("415"/\$.ccls. "416"/\$.ccls.) and weld\$3 with (interfer\$4 friction taper\$3 compress\$4 press\$4) adj fit\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/15 13:56 |
| L45 | 1  | ("6410165").PN.  | USPAT; USOCR                                | OR | OFF | 2008/10/15 14:02 |
| L46 | 0  | 45 and laser   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/15 14:02 |
| L47 | 1  | 45 and weld\$3   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/15 14:02 |
| S1  | 2  | (("6410165") or ("5865363")).PN.   | USPAT; USOCR                                | OR | OFF | 2008/10/14 11:27 |
| S5  | 2  | ep adj "763396"  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/14 11:28 |
| S6  | 4  | S1 S5  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/14 11:29 |
| S7  | 0  | S6 and laser   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2008/10/14 11:32 |

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| S8  | 1  | S6 and beam  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>11:32 |
| S9  | 4  | S6 and weld\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>11:34 |
| S10 | 0  | S6 and weld\$3 with beam   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>11:34 |
| S11 | 20 | (drive shaft) with hub with weld\$3 and (counteract\$4 with (tension stress force))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>13:06 |
| S12 | 0  | (drive shaft) with hub with weld\$3 same (counteract \$4 with (tension stress force))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>13:07 |
| S13 | 18 | (drive shaft) with hub with weld\$3 same ((counteract \$4 balanc\$4 offset\$4 reduc \$4 eliminat\$4 prevent\$4) with (tension stress force))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>13:07 |
| S14 | 9  | (drive shaft) with hub with weld\$3 same ((counteract \$4 balanc\$4 offset\$4 reduc \$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4)                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>13:08 |
| S15 | 2  | (driv\$3 shaft cylinder cylindrical\$4) with hub with weld\$3 same ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat \$4 prevent\$4) with (tension stress force) with weld\$4) not S14 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/10/14<br>13:15 |

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| S16 | 20 | (driv\$3 shaft cylinder cylindrical\$4) with (hub turbine fan) with weld\$3 same ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) not S14 not S15          | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:18 |
| S17 | 54 | (driv\$3 shaft cylinder cylindrical\$4) with (hub turbine fan) with weld\$3 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) not S14 not S15 not S16   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:28 |
| S18 | 13 | (driv\$3 shaft cylinder cylindrical\$4) with (hub turbine fan) with weld\$3 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) near3 (tension stress force) near4 weld\$4) not S14 not S15 not S16 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:29 |
| S19 | 22 | ("0310846"   "2490594"   "2544304"   "3005259"   "4118134"   "4135766"   "4408786"   "4417462"   "4588322"   "4768839"   "4986607"   "5143427"   "5213250"   "5536098"   "6059378").PN. OR ("6572199").URPN.             | US-PGPUB; USPAT; USOCR                      | OR | ON | 2008/10/14 13:31 |
| S20 | 9  | S19 and weld\$4  | US-PGPUB; USPAT; USOCR                      | OR | ON | 2008/10/14 13:33 |
| S21 | 1  | S20 and collar   | US-PGPUB; USPAT; USOCR                      | OR | ON | 2008/10/14 13:35 |
| S22 | 60 | (insert\$4 shrink\$4) with end near3 weld\$3 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) near3 (tension stress force) near4 weld\$4)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:46 |

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| S23 | 10    | (rod shaft cylinder cylindrical\$4 hub bolt) with (insert\$4 shrink\$4) with end near3 weld\$3 and ((counteract\$4 balanc \$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) near3 (tension stress force) near4 weld\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:47 |
| S24 | 2267  | (turbine turbomachin\$7 turbo fan blade) with (hub shaft) with weld\$4   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:49 |
| S25 | 505   | S24 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:50 |
| S26 | 90    | S24 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:50 |
| S27 | 11    | S24 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) with insert\$4  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:53 |
| S28 | 4     | S24 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) with radial\$4  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:55 |
| S29 | 0     | S24 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) with (press \$2 shr?nk) near2 fit\$4  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:57 |
| S30 | 1     | S24 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) same (press \$2 shr?nk) near2 fit\$4  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:57 |
| S31 | 13960 | (turbine turbomachin\$7 turbo fan hub) with weld \$4   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:59 |

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| S32 | 6  | S31 and ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) same (press \$2 shr?nk) near2 fit\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 13:59 |
| S33 | 28 | ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) with (tension stress force) with weld\$4) with press\$2 near2 fit\$4                   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 14:01 |
| S34 | 9  | ((counteract\$4 balanc\$4 offset\$4 reduc\$4 eliminat\$4 prevent\$4) near5 (tension stress force) with weld\$4) with press\$2 near2 fit\$4                  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/14 14:01 |

10/15/2008 2:29:08 PM

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